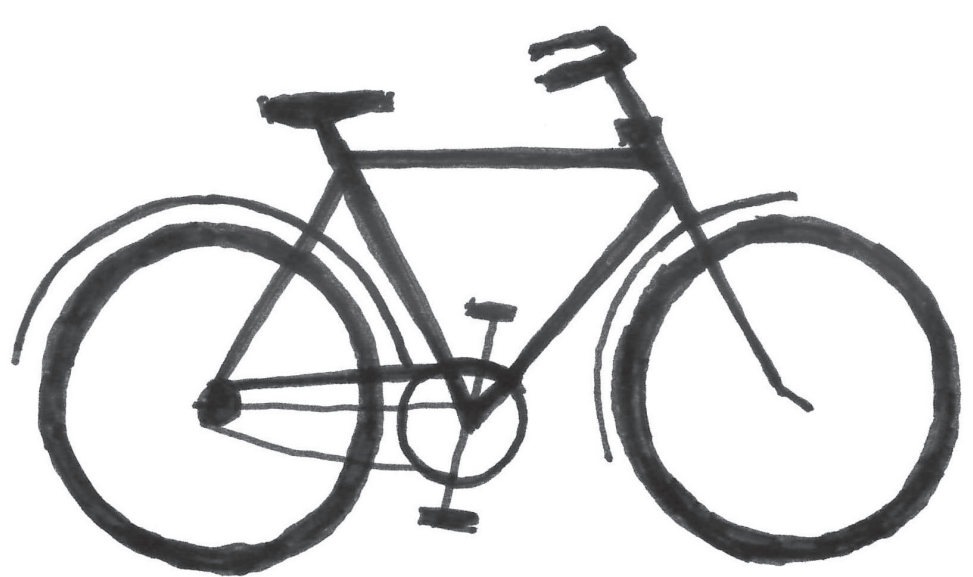


# Bicycle traffic and Streetscape

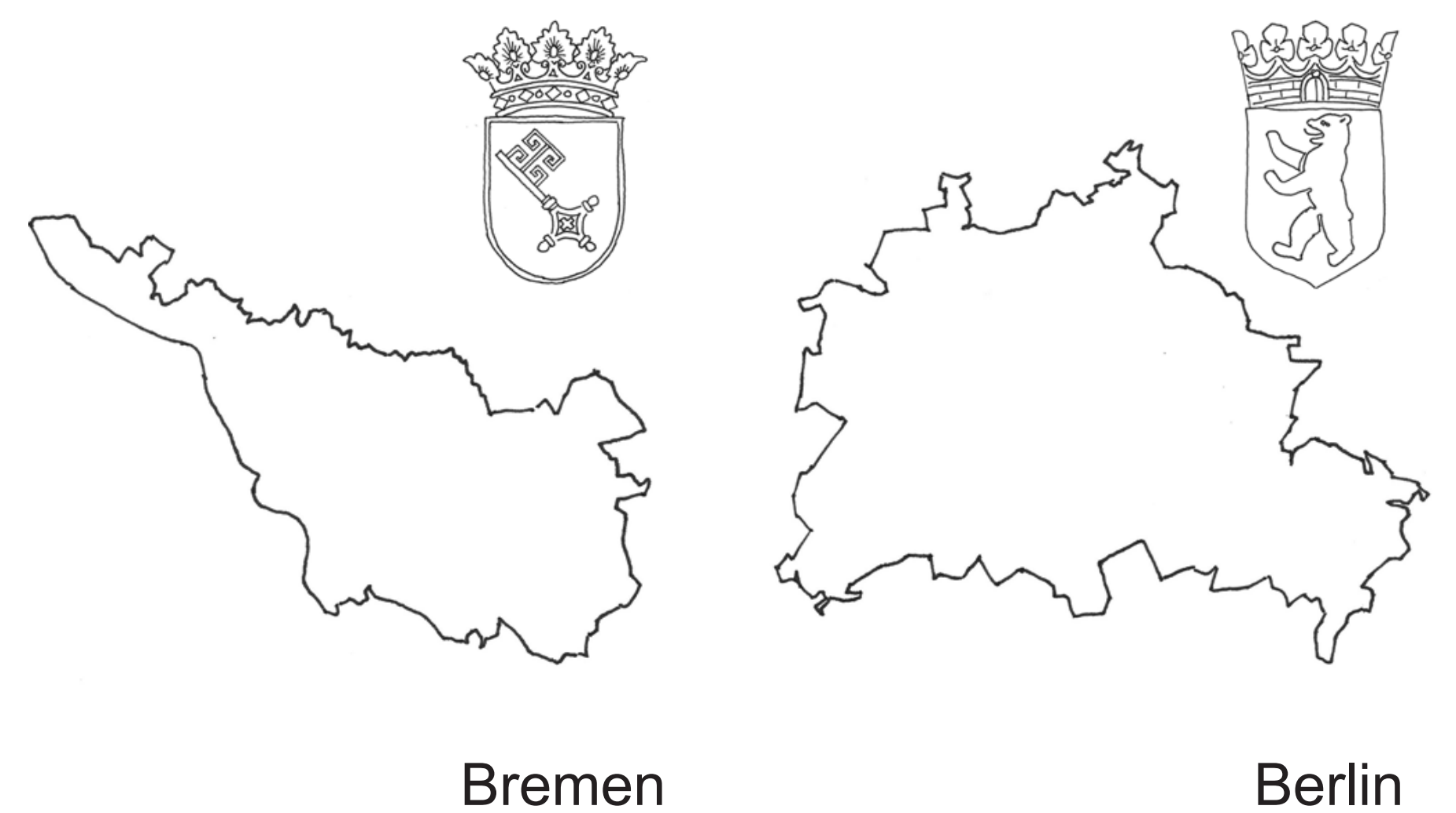
Interrelations between cycling and local urban infrastructure

## Motivation

- Increasing urban density
- Increasing and diversifying demand for public space
- Trend towards cycling as mode of transport
- Highly diverging cycling-rates between neighbourhoods even if sociodemographics are similar



## Research area



## Approach

### Data analysis

- Develop transferable method to measure bikeability on neighbourhood level and describe streetscape based on open data
- Combine these data with empiric mobility data
- Analyze interrelations using multivariate statistic methods
- Analyze preferences of users of BBBike's bicycle navigation service using Log-Data

## Research status

- Much research on correlations between mobility behaviour and spatial structure but overall little respect to bicycle as means of transport (Cervero/Kockelman 1997; Ewing/Cervero 2010)
- Highly aggregated view vs. detailed research questions with costly data collection e.g. in Terms of Active Living Research (Minge et al. 2015; Buehler/Pucher 2012; Cain et al. 2012)
- Few research on cyclist's distinct preferences regarding different types of infrastructure (Caulfield et al. 2012, Garrard et al. 2008)

## Research questions

- How to operationalize local infrastructures' bikeability with respect to transferability?
- How is local bicycle traffic interrelated to bikeability and infrastructural parameters?
- How are cyclists' preferences regarding different types of infrastructure constituted in different user groups?

## Survey

- Conduct online-survey to identify cyclists' preferences in terms of infrastructure using conjoint approach
- Differ between user groups, mobility behaviour, socio-demographics or bicycle type

## Interpretation and Synthesis

- Combine results of different modules, validate, interpret, conclude

## Dissemination

- Summarize project's results and publish as factsheet addressing municipalities

## Funding

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Map tiles by Stamen Design, Data by OpenStreetMap